BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Name of the work: **Estimate for Improvements to roads and drains at Balaji layout surroundings in ward no. 8, kodigehalli sub-division**

Estimate Cost: 4900000.00

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	1321 Hire charges of 100 KVA generator including operator, fuel, transportation and handling charges PWD SR 2013-14, P. L, I. 92 for pumping of stagnated water in existisng drain								
		Hours	15	12.00			180.00	495.00	89100.00
2	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. Page No. 138 / Item No. 19.1/ PWD SR 2014-15								
	Drain desilting								
	B/n 5th cross Ghee factory road and backside road (both sides - 3 crs road), BS slab drain	Cum	6	36.50	0.50	0.50	54.75		
	B/n 5th cross Ghee factory road and 4th cross road (both sides - 7 crs rd), BS slab drain	Cum	14	84.00	0.50	0.50	294.00		
	4th cross road left towards SWD, BS slab drain	Cum	1	231.67	0.50	0.50	57.92		
	4th cross road right towards SWD, BS slab drain	Cum	1	194.61	0.50	0.50	48.65		
	5th cross road - Ghee factory road, CC drain	Cum	1	223.21	0.45	0.45	45.20		
	5th cross road - Back side road, CC road	Cum	2	194.00	0.45	0.45	78.57		
	5th cross road - Ghee factory road, SSM drain	Cum	1	223.21	0.60	0.60	80.36		
	4th cross road right towards SWD, SSM drain	Cum	1	25.09	0.60	0.50	7.53		
	for reconstruction of SSM drain in 5th cross road - right side	Cum	1	223.21	1.90	0.15	63.61		
	5th cross continued beyond 6th main	Cum	2	112.50	0.50	0.40	45.00		
	6th cross road	Cum	2	382.50	0.50	0.60	229.50		
	6th cross road 1st sub cross	Cum	2	162.00	0.50	0.50	81.00		
	6th cross road 2nd sub cross	Cum	2	158.40	0.50	0.50	79.20		
	6th cross road 3rd sub cross	Cum	2	157.50	0.50	0.50	78.75		
	6th cross road 4th sub cross	Cum	2	157.50	0.50	0.50	78.75		
	6th cross road 5th sub cross	Cum	2	153.00	0.50	0.50	76.50		
							1399.29	75.60	105786.00
	Basic Rate	70.00							
	Area Weightage @8%	5.60							
	Total	75.60							
3	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T & P and scaffolding wherever necessary, sorting the dismantled material, disposal of unservicea ble material and stacking the serviceable material with all lifts complete as per specifications.- Rubble stone masonry in cement mortar (PWDSR 2014-15, I. 18.27, P. 134)								
	5th cross road - Ghee factory road, SSM drain	cum	2	223.21	0.45	0.90	180.80		
							180.80	993.60	179643.00
	Basic Rate	920.00							
	Area Weightage @8%	73.60							
	Total	993.60							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
4	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T & P and scaffolding wherever necessary, sorting the dismantled material, disposal of unservicea ble material and stacking the serviceable material with all lifts complete as per specifications. - RCC grade M20 and above (PWDSR 2014-15, I. 18.19, P. 133)								
	Chiping top layer of cc drain					Av.			
	5th cross road - Ghee factory road, CC drain	Cum	2	223.21	0.15	0.100	6.70		
	5th cross road - Back side road, CC road	Cum	4	194.00	0.15	0.100	11.64		
							18.34	954.72	17506.00
	Basic Rate	884.00							
	Area Weightage @8%	70.72							
	Total	954.72							
5	Removing B.S Slab of Drain and stacking Page No. 25 / Item No. 5.32 / PWD SR 2014-15								
	B/n 5th cross Ghee factory road and backside road (both sides - 3 crs road), BS slab drain	Sqm	6	36.50	1.65		361.35		
	B/n 5th cross Ghee factory road and 4th cross road (both sides - 7 crs rd), BS slab drain	Sqm	14	84.00	1.65		1940.40		
	4th cross road left towards SWD, BS slab drain	Sqm	1	231.67	1.65		382.25		
	4th cross road right towards SWD, BS slab drain	Sqm	1	194.61	1.65		321.10		
	5th cross continued beyond 6th main	Sqm	2	112.50	1.65		371.25		
	6th cross road 1st sub cross	Sqm	2	162.00	1.65		534.60		
	6th cross road 2nd sub cross	Sqm	2	158.40	1.65		522.72		
	6th cross road 3rd sub cross	Sqm	2	157.50	1.65		519.75		
	6th cross road 4th sub cross	Sqm	2	157.50	1.65		519.75		
	6th cross road 5th sub cross	Sqm	2	153.00	1.65		504.90		
							5978.07	58.32	348641.00
	Basic Rate	54.00							
	Area Weightage @ 8%	4.32							
	Total	58.32							
6	KSRRB M300-53. Construction of embankment with approved material deposited at site from roadway cutting and excavation from drain and foundation of other structures graded and compacted to meet requirement of Table 300-2 complete as per specifications which includes watering charges and compaction. (Page 144, Item No. 19.60 SR 2014-15)								
	B/n 5th cross Ghee factory road and backside road (both sides - 3 crs road), BS slab drain	cum	6	36.50	0.50	0.30	32.85		
	B/n 5th cross Ghee factory road and 4th cross road (both sides - 7 crs rd), BS slab drain	cum	14	84.00	0.50	0.30	176.40		
	4th cross road left towards SWD, BS slab drain	cum	1	231.67	0.50	0.30	34.75		
	4th cross road right towards SWD, BS slab drain	cum	1	194.61	0.50	0.30	29.19		
	for reconstruction of SSM drain in 5th cross road - right side	cum	1	223.21	1.90	0.30	127.23		
	5th cross continued beyond 6th main	cum	2	112.50	0.50	0.30	33.75		
	6th cross road	cum	2	382.50	0.50	0.30	114.75		
	6th cross road 1st sub cross	cum	2	162.00	0.50	0.30	48.60		
	6th cross road 2nd sub cross	cum	2	158.40	0.50	0.30	47.52		
	6th cross road 3rd sub cross	cum	2	157.50	0.50	0.30	47.25		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	6th cross road 4th sub cross	cum	2	157.50	0.50	0.30	47.25		
	6th cross road 5th sub cross	cum	2	153.00	0.50	0.30	45.90		
							785.44	166.32	130635.00
	Basic Rate	154.00							
	Area Weightage @ 8%	12.32							
	Total	166.32							
7	Refixing stone slabs of drains and pointing in C.M (1:3) Page No. 25 / Item No. 5.33 / PWD SR 2014-15								
	70 % of the quantity vide item No. 1	Sqm	Qty Vide Item No. 1				4184.64	75.60	316359.00
	Basic Rate	70.00							
	Area Weightage @ 8%	5.60							
	Total	75.60							
8	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. (10.0 cms thick) (P.No.28, I.No.5.31.1 of PW,P&IWTD SR 2014-15.)								
	Balance qty vide item No. 2 & 4	sqm					1793.43	704.16	1262862.0
	Basic Rate Rs.	652.00							
	Add 8% A.W Rs.	52.16							
	Total Rate Rs.	704.16							
9	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180 kgs with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. No. 12/ Item No. 4.3/ PWD SR 2014-15								
	for drain bed raising					Av.			
	5th cross road - Ghee factory road, CC drain	Cum	1	223.21	0.45	0.375	37.66		
	5th cross road - Back side road, CC road	Cum	2	194.00	0.45	0.375	65.48		
	5th cross road - Ghee factory road, SSM drain	cum	1	223.21	1.90	0.15	63.61		
	4th cross road right towards SWD, SSM drain	cum	1	25.09	0.60	0.300	4.52		
	6th cross road	cum	2	382.50	0.50	0.190	72.68		
							243.94	4847.04	1182392.00
	Basic Rate	4488.00							
	Area Weightage @8%	359.04							
	Total	4847.04							
10	KSRB 5.4-3: Providing and constructing granite / trap / basalt size stone masonry in superstructure with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 Page No. 23 / Item No. 5.12 / PWD SR 2014-15								
	5th cross road - Ghee factory road, SSM drain	Cum	2	223.21	0.45	0.80	160.71		
A	**With Available stones**								
	70% of qty vide item No. 2	cum					126.56	3585.60	453794.00
	Basic Rate	4420.00							
	Deduct cost of available stones 100*10/each	1000.00							
	Deduct 10% overhead charges (1000*10%)	100.00							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Net rate	3320.00							
	Area Weightage @ 8%	265.60							
	Total	3585.60							
B	**With New stones**								
	balance quantity	cum					34.15	4773.60	163024.00
	Basic Rate	4420.00							
	Area Weightage @8%	353.60							
	Total	4773.60							
11	KSRB 15.1.4: Providing ruled pointing to coursed stone masonry with cement mortar 1:4, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications cement mortar 1:4. Page No. 109 / Item No. 15.4 / PWD SR 2014-15								
	5th cross road - Ghee factory road, SSM drain	Sqm	4	223.21		0.80	714.27		
							714.27	92.88	66342.00
	Basic Rate	86.00							
	Area Weightage @ 8%	6.88							
	Total	92.88							
12	KSRB 4-1.7 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220 Kgs with 20mm and down size graded granite metal coarse aggregates @ 0.84 cum and fine aggregates @ 0.56 cum machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, (PWDSR 2014-15, I. 4.7, P. 13)								
	For laying over chipped cc drain								
	5th cross road - Ghee factory road, CC drain	Cum	2	223.21	0.20	0.075	6.70		
	5th cross road - Back side road, CC road	Cum	4	194.00	0.20	0.075	11.64		
	5th cross road - Ghee factory road, SSM drain	Cum	2	223.21	0.45	0.075	15.07		
	For raising bed in SSM drain								
	6th cross road	Cum	2	382.50	0.55	0.070	29.45		
							62.86	5287.68	332360.00
	Basic Rate	4896.00							
	Area Weightage @8%	391.68							
	Total	5287.68							
13	Providing and constructing precast concrete solid blocks with compressive strength not less than 3.5 N/sqmm with CM 1:4 masonry with solid concrete blocks of size 40x20x20 cm conforming to IS 2185 / 1965 in superstructure including cost of all materilas, labour charges, scaffolding, curing complete as per specifications. (PWDSR 2014-15, I. 5.27, P. 25)								
	5th cross road - Ghee factory road, CC drain	sqm	2	223.21		0.040	17.86		
	5th cross road - Back side road, CC road	sqm	4	194.00		0.040	31.04		
							48.90	993.60	48584.00
	Basic Rate	920.00							
	Area Weightage @8%	73.60							
	Total	993.60							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
14	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123)								
			Vide Item No. (2*0.85+3+4)				1388.53	73.57	102154.00
	Average weight of earth 1.28 tonne / kg for 2x1.28x2.00=5.12	5.12							
	Add loading and unloading charges Vide item no.17.1 P.no.130	63.00							
		68.12							
	Area Weightage @ 8%	5.45							
	Total	73.57							
15	Sub Total								4799182.00
16	For survey work, levelling work and drawings @ 1% of est cost								47992.00
17	For Third Part QC inspection Charges @ 1% of Estimate Cost								47992.00
18	Miscellaneous and other Charges	L/S							4834.00
								Total	4900000.00

(Rs. Forty Nine Lakhs Only)

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2014-15.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 8

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP

Executive Engineer
Byatarayanapura Division
BBMP

ADMINISTRATIVELY SANCTIONED FOR Rs 49,00 lakhs

Rupees Forty nine lakhs only

Under P-3089

Technical Sanction
Accorded For 49.00 lakh Rs
Head of A/C P 3089
CER NO : 37 Dt: 21.8.15

TAI CE (YNK).

Registered as EE ( ) No 9
Subject to conditions contained in enclosed memo EE ( ) No /9/...
Dt Estimate A/C Sanctioned
JC (Y)/pal A/c No 22/2015-16
dated 20/8/2015 Rs 49,00 lakhs.

Joint Commissioner
(Yelahanka Zone)
BBMP, Bengaluru-92